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1	BRS	L1	906	(emulated same operating same system)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	2006/10/05 14:26
2	BRS	L2	39	(emulated adj operating adj system)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	2006/10/05 14:26
3	BRS	L3	27	(emulated adj operating adj system) and (plurality or multiple same (operatins adj systems))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	2006/10/05 14:43
4	BRS	L4	30	(emulated adj operating adj system) and (plurality or multiple same (operating adj systems))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	2006/10/05 14:46
5	BRS	L5	3089	(particular adj operating adj system)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	2006/10/05 14:47

	Type	L #	Hits	Search Text	DBs	Time Stamp
6	BRS	L6	81	(particular adj operating adj system) and (emulation same environment)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	2006/10/05 14:48
7	BRS	L7	8	(particular adj operating adj system) and (emulation same environment) and emulators	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	2006/10/05 14:50
8	BRS	L8	22	emulation and (IEEE-1394 same cable)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	2006/10/05 14:50
9	BRS	L9	15	emulation and (IEEE-1394 same cable) and ethernet	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	2006/10/05 14:50
10	BRS	L10	0	emulation and (IEEE-1394 same cable) and ethernet and wirless	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	2006/10/05 14:51

	Type	L #	Hits	Search Text	DBs	Time Stamp
11	BRS	L11	15	emulation and (IEEE-1394 same cable) and ethernet and wireless	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	2006/10/05 14:51
12	BRS	L12	2	(emulation same OS) and (IEEE-1394 same cable) and ethernet and wireless	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	2006/10/05 14:59
13	BRS	L13	180	(bluetooth same emulation)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	2006/10/05 15:00
14	BRS	L14	0	(bluetooth same emulation) and (IEEE-1394)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	2006/10/05 15:05
15	BRS	L15	180	(bluetooth same emulation)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	2006/10/05 15:05

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16	BRS	L16	89	(bluetooth same emulation) and ethernet	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	2006/10/05 15:05
17	BRS	L17	34	(bluetooth same emulation) and ethernet and infrared	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	2006/10/05 15:05
18	BRS	L18	6	(bluetooth same emulation) and ethernet and infrared and (emula$3 same (multiple or plurality))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	2006/10/05 15:07
19	BRS	L19	0	(bluetooth same emulation) and (multiple adj operating adj systems)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	2006/10/05 15:08
20	BRS	L20	8	(bluetooth) and (multiple adj operating adj systems)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	2006/10/05 15:39

	Type	L #	Hits	Search Text	DBs	Time Stamp
21	BRS	L21	0	(bluetooth) and (multiple adj operating adj systems) and (first adj computer)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	2006/10/05 15:39
22	BRS	L22	475	(bluetooth) and (first adj computer)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	2006/10/05 15:39
23	BRS	L23	227	(bluetooth) and (first adj computer) and usb	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	2006/10/05 15:39
24	BRS	L24	23	(bluetooth) and (first adj computer) and usb and (data adj file)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	2006/10/05 15:40
25	BRS	L25	17	(bluetooth) and (first adj computer) and usb and (data adj file) and (environment)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	2006/10/05 15:40

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26	BRS	L26	12	(bluetooth) and (first adj computer) and usb and (data adj file) and (environment same operat$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	2006/10/05 15:41
27	BRS	L27	3	(bluetooth) and (first adj computer) and usb and (data adj file) and (environment same operat$4) and (emul$5)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	2006/10/05 15:42
28	BRS	L28	3	(bluetooth) and (first adj computer) and usb and (data adj file) and (environment same operat$4) and (emul$5) and OS	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	2006/10/05 15:42
29	BRS	L29	3	(bluetooth) and (first adj computer) and usb and (data adj file) and (environment same operat$4) and (emul$5) and OS and memory	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	2006/10/05 15:48
30	BRS	L30	54	(bluetooth) and (first adj computer) and usb and OS	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	2006/10/05 15:48

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31	BRS	L31	33	(bluetooth) and (first adj computer) and usb and OS and "1394"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	2006/10/05 15:49
32	BRS	L32	54	(bluetooth) and (first adj computer) and usb and OS	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	2006/10/05 15:49
33	BRS	L33	49	(bluetooth) and (first adj computer) and usb and OS and (pc)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	2006/10/05 15:49
34	BRS	L34	0	(bluetooth same emulation) and (first adj computer) and usb and OS and (pc)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	2006/10/05 15:49
35	BRS	L35	0	(bluetooth same emula$4) and (first adj computer) and usb and OS and (pc)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	2006/10/05 15:49

	Type	L #	Hits	Search Text	DBs	Time Stamp
36	BRS	L36	26	(bluetooth and emula$4) and (first adj computer) and usb and OS and (pc)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	2006/10/05 15:50

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181 Multimedia support over bluetooth Piconets
Rohit Kapoor, Manthos Kazantzidis, Mario Gerla, Per Johansson
July 2001 **Proceedings of the first workshop on Wireless mobile internet**
Publisher: ACM Press
Full text available: pdf(808.15 KB) Additional Information: full citation, abstract, references, citings, index terms

In this paper we explore the ability to support multimedia traffic in indoor, wireless ad hoc PANs (Personal Area Networks) using the Bluetooth technology. We first define the representative ad hoc networking applications such as wireless access to the Internet, document distribution, videoconferencing, webcasting, interaction with sensors and actuators, etc. For such applications, we define the performance requirements placed on the PAN. There are two technologies now competing for the ...

Keywords: Piconets, WaveLAN, bluetooth, multimedia, video, voice

182 Interference of bluetooth and IEEE 802.11: simulation modeling and performance evaluation
N. Golmie, R. E. Van Dyck, A. Soltanian
July 2001 **Proceedings of the 4th ACM international workshop on Modeling, analysis and simulation of wireless and mobile systems**
Publisher: ACM Press
Full text available: pdf(657.91 KB) Additional Information: full citation, abstract, references, citings, index terms

The emergence of several radio technologies such as Bluetooth, and IEEE 802.11 operating in the 2.4 GHz unlicensed ISM frequency band may lead to signal interference and result in significant performance degradation when devices are co-located in the same environment. The main goal of this paper is to present a simulation environment for modeling interference based on detailed MAC and PHY models. This framework is then used to evaluate the impact of interference on the performance of Bluetoot ...

Keywords: IEEE 802.11, WPANs, bluetooth, interference

183 Wireless access to internet via Bluetooth: performance evaluation of the EDC scheduling algorithm

Raffaele Bruno, Marco Conti, Enrico Gregori
July 2001 **Proceedings of the first workshop on Wireless mobile internet**
Publisher: ACM Press

Full text available: pdf(567.57 KB) Additional Information: full citation, abstract, references, citings, index terms

Bluetooth is an emerging technology for constructing adhoc wireless Personal Area Networks (WPANs). In this paper we analyze an innovative scheduling algorithm for asynchronous data traffic specifically tailored to the Bluetooth characteristic. This algorithm, named Efficient Double-Cycle (EDC), dynamically adapts the polling frequency to the traffic conditions. By considering a scenario where a Bluetooth master is used as wireless access point to the Internet, we show that our EDC sched ...

Keywords: Medium Access Control (MAC), TCP, automatic repeat request (ARQ), bluetooth, polling, scheduling

184 Research challenges in wireless networks of biomedical sensors

Loren Schwiebert, Sandeep K.S. Gupta, Jennifer Weinmann
July 2001 **Proceedings of the 7th annual international conference on Mobile computing and networking**
Publisher: ACM Press

Full text available: pdf(612.60 KB) Additional Information: full citation, abstract, references, citings, index terms

Implanted biomedical devices have the potential to revolutionize medicine. *Smart sensors*, which are created by combining sensing materials with integrated circuitry, are being considered for several biomedical applications such as a glucose level monitor or a retina prosthesis. These devices require the capability to communicate with an external computer system (base station) via a wireless interface. The limited power and computational capabilities of smart sensor based biological imp ...

185 Physical layer driven protocol and algorithm design for energy-efficient wireless sensor networks

Eugene Shih, Seong-Hwan Cho, Nathan Ickes, Rex Min, Amit Sinha, Alice Wang, Anantha Chandrakasan
July 2001 **Proceedings of the 7th annual international conference on Mobile computing and networking**
Publisher: ACM Press

Full text available: pdf(782.22 KB) Additional Information: full citation, abstract, references, citings, index terms

The potential for collaborative, robust networks of microsensors has attracted a great deal of research attention. For the most part, this is due to the compelling applications that will be enabled once wireless microsensor networks are in place; location-sensing, environmental sensing, medical monitoring and similar applications are all gaining interest. However, wireless microsensor networks pose numerous design challenges. For applications requiring long-term, robust sensing, such as milit ...

186 One-chip bluetooth Asic challenges

Paul T. M. van Zeijl
June 2001 **Proceedings of the 38th conference on Design automation**
Publisher: ACM Press

Full text available: pdf(78.58 KB) Additional Information: full citation, abstract, index terms

This paper will describe the constraints, trade-offs and challenges for designing a one-chip (RF/radio plus baseband integrated on the same Si-die) compared to designing a separate

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RF/radio ASIC.The presentation will start with an overview of the background of Bluetooth technology: the orginal purpose was to replace wires. Consequently, the RF-proposal has to be cheap (target below U$5.-) and the current consumption should be low. The desire to have a cheap radio, cannot be imple ...

187 Capacity evaluation of frequency hopping based ad-hoc systems

Apurva Kumar, Rajeev Gupta
June 2001 **ACM SIGMETRICS Performance Evaluation Review , Proceedings of the 2001 ACM SIGMETRICS international conference on Measurement and modeling of computer systems SIGMETRICS '01**, Volume 29 Issue 1
Publisher: ACM Press
Full text available: pdf(979.91 KB) Additional Information: full citation, abstract, references, citings

The IEEE 802.15 Wireless Personal Area Networks (WPAN) study group has been working on evolving a standard for short-range wireless connectivity between low complexity and low power devices operating within the personal operating space (POS). The scenarios envisioned for WPANs are likely to involve a large number of POSs operating in an indoor environment. Among short-range wireless technologies, Bluetooth™ [1] based ad-hoc connectivity comes closest to satisfying the WPAN requirements ...

Keywords: GFSK, ad-hoc networks, bit error rate, bluetooth technology, capacity, forward error correction, frequency hopping, throughput

188 A ubiquitous stable storage for mobile computing devices

Legand L. Burge, Suleiman Baajun, Moses Garuba
March 2001 **Proceedings of the 2001 ACM symposium on Applied computing**
Publisher: ACM Press
Full text available: pdf(80.15 KB) Additional Information: full citation, references, index terms

Keywords: Jini, mobile computing, post-pc, security, wireless

189 Poster session: Proximity awareness and fast connection establishment in Bluetooth

Theodoros Salonidis, Pravin Bhagwat, Leandros Tassiulas
November 2000 **Proceedings of the 1st ACM international symposium on Mobile ad hoc networking & computing**
Publisher: IEEE Press
Full text available: pdf(183.93 KB) Additional Information: full citation, abstract, references, citings

Proximity awareness in Bluetooth technology is implemented via an asymmetric point to point "sender-receiver" protocol where "senders" are trying to discover "receivers" in the vicinity. This paper tries to shed some light on the link formation delay by first identifying the delay bottlenecks in the asymmetric neighborhood discovery process and then discussing the factors that affect certain parameter decisions. A symmetric technique for establishing ad hoc connectivity is introduced which impos ...

190 Poster session: Securing ad hoc services, a Jini view: extended abstract

C. Gehrmann, P. Nikander
November 2000 **Proceedings of the 1st ACM international symposium on Mobile ad hoc networking & computing**
Publisher: IEEE Press
Full text available: pdf(213.59 KB) Additional Information: full citation, abstract, references

Problems with securing ad hoc services are discussed. How authentication and key

exchange for ad hoc services can be performed will be shown. We use a simple trust model for the participants in an ad hoc network. We show how to create an authenticated secure ad hoc connection using, for example, the Java/Jini environment.

191 Poster session: Performance aspects of Bluetooth scatternet formation

Gy. Miklós, A. Rácz, Z. Turányi, A. Valkó, P. Johansson

November 2000 **Proceedings of the 1st ACM international symposium on Mobile ad hoc networking & computing**

Publisher: IEEE Press

Full text available: pdf(152.22 KB) Additional Information: full citation, abstract, references, citings

The emergence of Bluetooth as a default radio interface allows handheld electronic devices to be rapidly interconnected into ad hoc networks. Bluetooth allows large numbers of piconets to form a scatternet using designated nodes that participate in multiple piconets. In this work we study the performance implications of forming scatternets from piconets. The contribution of our work is twofold. First, we establish a network model and define performance metrics for Bluetooth scatternets. Our mode ...

192 Session 1: Nomadic computing and reconciliation: Context-aware multimedia computing in the intelligent hospital

Scott Mitchell, Mark D. Spiteri, John Bates, George Coulouris

September 2000 **Proceedings of the 9th workshop on ACM SIGOPS European workshop: beyond the PC: new challenges for the operating system**

Publisher: ACM Press

Full text available: pdf(721.88 KB) Additional Information: full citation, abstract, references, citings

This paper describes an application middleware that addresses the requirement for immediate high-quality multimedia communications in environments where users' work practices exhibit a large degree of physical mobility. A modern hospital is one such environment, with diverse, often mission-critical, communication needs that are not addressed adequately by existing systems. By integrating a multimedia framework with an event-based notification system, we are developing **QoS DREAM,** ...

193 Proceedings - only: Position paper: the role of platforms and operating systems in supporting home networks

Nigel Davies, Pierre-Guillaume Raverdy

September 2000 **Proceedings of the 9th workshop on ACM SIGOPS European workshop: beyond the PC: new challenges for the operating system**

Publisher: ACM Press

Full text available: pdf(37.75 KB) Additional Information: full citation, abstract, references

As researchers look beyond the PC there is increasing interest in developing and deploying sophisticated home networks. Such networks might allow the seamless integration of information and services produced both within the home and externally, enabling applications such as the purchase of on-line AV content, tight coupling between kitchen sensors and "Web Van" order forms, and home remote control. From a manufacturers perspective, particularly those manufacturers traditionally associated with b ...

194 Low-power considerations in the design of bluetooth (invited talk)

Sven Mattisson

August 2000 **Proceedings of the 2000 international symposium on Low power electronics and design**

Publisher: ACM Press

Full text available: pdf(160.17 KB) Additional Information: full citation, abstract, references, index terms

In this paper, we review the Bluetooth technology, a new universal radio interface

enabling electronic devices to connect and communicate wirelessly via short-range connections. Motivations for the radio requirements are given, and the implications of system parameters like operating modes, frequency hopping, interference resistance are discussed from a low-power perspective. Specific characteristics enabling low-cost single-chip implementations and supporting low power consumption are outl ...

195 Clustering algorithms for wireless ad hoc networks

Lakshmi Ramachandran, Manika Kapoor, Abhinanda Sarkar, Alok Aggarwal
August 2000 **Proceedings of the 4th international workshop on Discrete algorithms and methods for mobile computing and communications**
Publisher: ACM Press

Full text available: pdf(1.04 MB) Additional Information: full citation, abstract, references, citings, index terms

Efficient clustering algorithms play a very important role in the fast connection establishment of ad hoc networks. In this paper, we describe a communication model that is derived directly from that of Bluetooth, an emerging technology for pervasive computing; this technology is expected to play a major role in future personal area network applications. We further propose two new distributed algorithms for clustering in wireless ad hoc networks. The existing algorithms often become infeasi ...

196 Embedded computation meets the World Wide Web

Gaetano Borriello, Roy Want
May 2000 **Communications of the ACM**, Volume 43 Issue 5
Publisher: ACM Press

Full text available: pdf(456.09 KB) html(41.58 KB) Additional Information: full citation, references, citings, index terms

197 Wireless personal area networks: an overview of the IEEE P802.15 working group

Richard C. Braley, Ian C. Gifford, Robert F. Heile
January 2000 **ACM SIGMOBILE Mobile Computing and Communications Review**, Volume 4 Issue 1
Publisher: ACM Press

Full text available: pdf(1.04 MB) Additional Information: full citation, index terms

198 Next century challenges: data-centric networking for invisible computing: the Portolano project at the University of Washington

Mike Esler, Jeffrey Hightower, Tom Anderson, Gaetano Borriello
August 1999 **Proceedings of the 5th annual ACM/IEEE international conference on Mobile computing and networking**
Publisher: ACM Press

Full text available: pdf(1.03 MB) Additional Information: full citation, references, citings, index terms

199 Report on the WINLAB/Berkeley FOCUS'99 on "Radio Networks for Everything"

Chris Rose, Andy Ogielski, Gary Kelson
July 1999 **ACM SIGMOBILE Mobile Computing and Communications Review**, Volume 3 Issue 3
Publisher: ACM Press

Full text available: pdf(287.62 KB) Additional Information: full citation, index terms

200 Papers: Wireless data communications using DECT air interface





António Muchaxo, Alexandre Sousa, Nuno Pereira, Helena Sarmento
April 1999 **ACM SIGCOMM Computer Communication Review**, Volume 29 Issue 2
Publisher: ACM Press
Full text available: pdf(1.25 MB) Additional Information: full citation, abstract, references, citings

DECT is an approved ETSI standard for cordless communications, defined as a general radio access technology that can be used as the air interface to any network. In addition to the well-established voice service, it supports data communications. DECT currently addresses low bit rates, but additional modulation options have recently been included for high-speed, up to 2Mbps. In this paper, we describe the hardware and software design of an entire wireless communications system to be used in SOHO ...

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